

Residential and Rural Road Rehabilitation (P500914)

Category Transportation
Sub Category Highway Maintenance
Administering Agency Transportation (AAGE30)
Planning Area Countywide

Date Last Modified 1/5/13
Required Adequate Public Facility No
Relocation Impact None
Status Ongoing

	Total	Thru FY12	Rem FY12	Total 6 Years	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	Beyond 6 Yrs
EXPENDITURE SCHEDULE (\$000s)											
Planning, Design and Supervision	7,493	7	732	6,754	1,605	829	1,080	1,080	1,080	1,080	0
Land	0	0	0	0	0	0	0	0	0	0	0
Site Improvements and Utilities	0	0	0	0	0	0	0	0	0	0	0
Construction	47,496	11,650	0	35,846	7,495	3,871	6,120	6,120	6,120	6,120	0
Other	8	8	0	0	0	0	0	0	0	0	0
Total	54,997	11,665	732	42,600	9,100	4,700	7,200	7,200	7,200	7,200	0

FUNDING SCHEDULE (\$000s)											
G.O. Bonds	47,691	7,847	0	39,844	9,100	1,944	7,200	7,200	7,200	7,200	0
Recordation Tax Premium	7,306	3,818	732	2,756	0	2,756	0	0	0	0	0
Total	54,997	11,665	732	42,600	9,100	4,700	7,200	7,200	7,200	7,200	0

APPROPRIATION AND EXPENDITURE DATA (000s)

Appropriation Request	FY 14	4,700
Supplemental Appropriation Request	2,500	0
Transfer		0
Cumulative Appropriation		18,997
Expenditure / Encumbrances		11,665
Unencumbered Balance		7,332

Date First Appropriation	FY 09
First Cost Estimate	
Current Scope	FY 13
Last FY's Cost Estimate	54,997
Partial Closeout Thru	0
New Partial Closeout	0
Total Partial Closeout	0

Description

This project provides for the major rehabilitation of rural and residential roadways in older communities to include extensive pavement rehabilitation and reconstruction including the associated rehabilitation of ancillary elements such as under drains, sub-grade drains, and INSTALLATION AND REPLACEMENT OF curbs and gutters. This project will not make major changes to the location or size of existing drainage structures, if any. Pavement rehabilitation includes the replacement of existing failed pavement sections by the placement of an equivalent or increased pavement section. The rehabilitation usually requires the total removal and replacement of failed pavement exhibiting widespread areas of fatigue related distress, base failures and sub-grade failures.

Justification

In FY09, the Department of Transportation instituted a contemporary pavement management system. This system provides for systematic physical condition surveys. The physical condition surveys note the type, level, and extent of residential pavement deterioration combined with average daily traffic and other usage characteristics. This information is used to calculate specific pavement ratings, types of repair strategies needed, and associated repair costs, as well as the overall Pavement Condition Index (PCI) of the entire residential network. The system also provides for budget optimization for a systematic approach to maintaining a healthy residential pavement inventory. The updated 2010 pavement condition survey indicated that 1,006 lane miles (24 percent) of residential pavement have fallen into the lowest possible category and are in need of structural reconstruction. Typically, pavements rated in this category require between 15-20 percent permanent patching per lane mile. Physical condition inspections of residential pavements will occur on a 2-3 year cycle.

Other

Hot mix asphalt pavements have a finite life of approximately 20 years based upon a number of factors including but not limited to: original construction materials, means and methods, underlying soil conditions, drainage, daily traffic volume, other loading such as construction traffic and heavy truck traffic, age, and maintenance history. A well maintained residential road carrying low to moderate traffic levels is likely to provide a service life of 20 years or more. Conversely, lack of programmed maintenance will shorten the service life of residential roads considerably, in many cases to less than 15 years before rehabilitation is needed.

Fiscal Note

\$2.5 million shifted from FY14 to FY13 due to fiscal capacity.

Disclosures

A pedestrian impact analysis has been completed for this project.

Expenditures will continue indefinitely.

Coordination

Washington Suburban Sanitary Commission, Washington Gas Light Company, Department of Permitting Services, PEPCO, Cable TV, Verizon, Montgomery County Public Schools, Regional Services Centers, Community Associations, Commission on People with Disabilities